

Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name ANSULITE 3% AFFF (AFC3B)

1. Identification

1.1. Product Identifier

Product name ANSULITE 3% AFFF (AFC3B)

1.2. Other means of identification

Product code 443092 Synonyms None

Chemical Family No information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use Fire extinguishing agent.

Uses advised against Consumer use.

1.4. Details of the Supplier of the Safety Data Sheet

Company Name Tyco Fire Protection Products

One Stanton Street Marinette, WI 54143-2542 Telephone: 715-735-7411

Contact point Product Stewardship at 1-715-735-7411

E-mail address psra@tycofp.com

1.5. Emergency Telephone Number

Emergency telephone CHEMTREC 001-800-424-9300 or 001-703-527-3887

2. Hazards Identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation - Category 2A

2.2. Label Elements

Signal Word

WARNING

Hazard Statements

Causes serious eye irritation



Precautionary Statements



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Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

2.3. Hazards Not Otherwise Classified (HNOC)

Not Applicable.

2.4. Other Information

3. Composition/information on Ingredients

3.1. Mixture

The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No.	weight-%
2-(2-Butoxyethoxy)ethanol	112-34-5	5 - 10
Lauryl Imino Propionate, Sodium Salt	14960-06-6	1 - 5
Polyfluorinated alkyl betaine	Proprietary	1 - 5

4. First aid measures

4.1. Description of first aid measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately

if symptoms occur.).

Ingestion Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison

control center or physician immediately.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

5. Fire-fighting measures

5.1. Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Unsuitable Extinguishing Media

None.



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5.3. Specific Hazards Arising from the Chemical

None known.

Hazardous Combustion

Products

Carbon oxides, Fluorinated oxides, Nitrogen oxides (NOx), Oxides of sulfur

5.4. Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

5.5. Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas.

6.2. Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers,

basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

7. Handling and Storage

7.1. Precautions for Safe Handling

Advice on safe handling Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and

safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

8.1. Control Parameters

Exposure guidelines

Exposure guidennes				
Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
2-(2-Butoxyethoxy)ethanol	TWA: 10 ppm inhalable	-	-	-



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112-34-5 fraction and vapor

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor) NIOSH IDLH Immediately Dangerous to Life or Health

8.2. Appropriate Engineering Controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. Tight sealing safety goggles.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

No flash up to boiling point.

provided in accordance with current local regulations.

Ventilation Use local exhaust or general dilution ventilation to control exposure with applicable limits

8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State Liquid

Odor Characteristic Color Amber

Odor Threshold No data available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No data available
Melting point/freezing point No data available
Boiling point / boiling range 100 °C / 212 °F
Flash Point No data available

Evaporation Rate No data available Flammability (solid, gas) No data available

Flammability limit in air

Upper flammability limit: No data available Lower flammability limit: No data available **Vapor Pressure** No data available No data available **Vapor Density** Specific gravity No data available Water Solubility No data available Solubility in Other Solvents No data available **Partition coefficient** No data available No data available

Autoignition TemperatureNo data availableDecomposition TemperatureNo data availableKinematic viscosityNo data available

VOC content (%) 10.0568 **Density** 1.01 g/cm3



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10. Stability and Reactivity

10.1. Chemical Stability

Stable under recommended storage conditions.

10.2. Reactivity

No data available

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Fluorinated oxides.

11. Toxicological Information

11.1. Information on Likely Routes of Exposure

Product information

Inhalation No data available.

Eye Contact Severely irritating to eyes.

Skin contact No data available.

Ingestion No data available.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-(2-Butoxyethoxy)ethanol	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
112-34-5			

11.2. Information on Toxicological Effects

Symptoms No information available.

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious eye damage/eye irritation Severely irritating to eyes. Carcinogenicity No information available.



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Reproductive Toxicity
STOT - Single Exposure
STOT - Repeated Exposure
Aspiration Hazard
No information available.
No information available.
No information available.

11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 25600 mg/kg

 ATEmix (dermal)
 27648 mg/kg

12. Ecological Information

12.1. Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Crustacea
2-(2-Butoxyethoxy)ethanol	EC50 (96h) > 100 mg/L	LC50 (96h) static = 1300 mg/L	EC50 (48h) > 100 mg/L Daphnia
112-34-5	Desmodesmus subspicatus	Lepomis macrochirus	magna EC50 (24h) = 2850 mg/L
			Daphnia magna
1,2-Propanediol	EC50 (96h) = 19000 mg/L	LC50 (96h) static = 51600 mg/L	EC50 (48h) Static > 1000 mg/L
57-55-6	Pseudokirchneriella subcapitata	Oncorhynchus mykiss LC50 (96h)	Daphnia magna EC50 (24h) >
		static = 51400 mg/L Pimephales	10000 mg/L Daphnia magna
		promelas LC50 (96h) = 710 mg/L	
		Pimephales promelas LC50 (96h)	
		static 41 - 47 mL/L Oncorhynchus	
		mykiss	
1-Octanol	EC50 (48h) static = 14 mg/L	LC50 (96h) static = 17.68 mg/L	EC50 (24h) 15 - 26 mg/L Daphnia
111-87-5	Desmodesmus subspicatus	Oncorhynchus mykiss LC50 (96h)	magna
		flow-through 11.4 - 12.9 mg/L	
		Pimephales promelas	

Concentrate	
Method	Biological Test Method: Acute Lethality Test Using Daphnia ssp. (EPS
	1/RM/11)
Species	Daphnia magna
Endpoint type	LC50
Effective dose	928 mg/L
Exposure time	48h
Method	Biological Test Method: Acute Lethality Test Using Daphnia ssp. (EPS 1/RM/11)
Species	Daphnia magna
Endpoint type	EC50
Effective dose	790 mg/L
Exposure time	48h
Method	Biological Test Method: Acute Lethality Test Using Rainbow Trout (EPS 1/RM/9)
Species	Oncorhynchus mykiss (rainbow trout)
Endpoint type	LC50
Effective dose	5,320 mg/L
Exposure time	96h



3% Solution

Method Biological Test Method: Acute Lethality Test Using Daphnia ssp. (EPS 1/RM/11)

Species Daphnia magna

Endpoint type LC50 Effective dose 52,830 mg/L

Exposure time 48h

Biological Test Method: Acute Lethality Test Using Daphnia ssp. (EPS 1/RM/11) Method

Species Daphnia magna

Endpoint type EC50 36,990 mg/L Effective dose

Exposure time 48h

Method Biological Test Method: Acute Lethality Test Using Rainbow Trout (EPS 1/RM/9)

Oncorhynchus mykiss (rainbow trout) Species

Endpoint type LC50

Effective dose 185,200 mg/L

Exposure time 96h

Method Biological Test Method: Acute Lethality Using Threespine Stickleback (Gasterosteus

aculeatus) (EPS 1/RM/10)

Gasterosteus aculeatus Species

Endpoint type LC50 Effective dose 80,000 mg/L

Exposure time 96h

12.2. Persistence and Degradability

Chemical Oxygen Demand (mg/L)

Concentrate 230,000 3% Solution 7,000

Concentrate Biological Oxygen Demand (mg/L)

Biological Oxygen Demand (5 Day)	<20000
%BOD/COD	6.96
Biological Oxygen Demand (10 Day)	150000
%BOD/COD	65.22
Biological Oxygen Demand (15 Day)	170000
%BOD/COD	73.91
Biological Oxygen Demand (20 Day)	190000
%BOD/COD	82.61

3% Solution Biological Oxygen Demand (mg/L)

3 30 Iution Biological Oxygen Demand (mg/L)	
Biological Oxygen Demand (5 Day)	390
%BOD/COD	5.57
Biological Oxygen Demand (10 Day)	4600
%BOD/COD	65.71
Biological Oxygen Demand (15 Day)	5000
%BOD/COD	71.43
Biological Oxygen Demand (20 Day)	5200
%BOD/COD	74.29

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12.3. Bioaccumulation

No information available.

12.4. Other Adverse Effects

No information available

13. Disposal Considerations

13.1. Waste Treatment Methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Do not reuse container.

14. Transport Information

DOT NOT REGULATED

NOT REGULATED TDG

MEX NOT REGULATED

ICAO (air) NOT REGULATED

NOT REGULATED IATA

NOT REGULATED IMDG

15. Regulatory Information

15.1. International Inventories

TSCA Complies **DSL/NDSL** Does not comply **ENCS** Complies Complies **IECSC** Complies **KECL** Does not comply **PICCS AICS** Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372



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Chemical name	SARA 313 - Threshold Values %
2-(2-Butoxyethoxy)ethanol - 112-34-5	1.0
SARA 311/312 Hazard Categories	
Acute Health Hazard	Yes
Chronic health hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

15.3. US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Perfluorooctanoic acid - 335-67-1	Developmental Toxicity

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-(2-Butoxyethoxy)ethanol	X	-	X
112-34-5			
1,2-Propanediol	X	-	X
57-55-6			
1-Octanol	-	-	X
111-87-5			

16. Other information, including date of preparation of the last revision

<u>NFPA</u>	Health Hazards 1	Flammability 0	Instability 0	Physical and chemical
				properties -
HMIS	Health Hazards 1	Flammability 0	Physical Hazards 0	Personal Protection X

Revision date 11-Jan-2019

Revision note SDS sections updated, 12.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet